

CLAIMS

- 5 1. A transport chair lift with a single overhead carrying-hauling rope and fixed grips
for securing the chairs, comprising in a terminal a bull-wheel on which the rope
runs, and means for positioning the vertical-axis bull-wheel on a carriage
mounted on a support device for use as a drive wheel driven by a geared
motor mechanism and/or as a tensioning wheel,
- 10 wherein the geared motor mechanism comprises a coaxial shaft line extending
perpendicularly to the bull-wheel in a substantially vertical direction.
2. The chair lift according to claim 1, wherein the geared motor mechanism is
composed of an electric motor and a mechanical speed reducer constituting two
- 15 independent modules arranged on each side of the bull-wheel.
3. The chair lift according to claim 2, wherein the first high-speed output shaft of the
motor passes through a tubular sheath securedly attached to the carriage, and is
coaxially surrounded by the second hollow low-speed output shaft of the
- 20 geared motor mechanism.
4. The chair lift according to claim 3, wherein the hub of the bull-wheel rotates
around the sheath with interposed bearings and comprises a drive sleeve
connected to the second rotary shaft of the speed reducer.

5. The chair lift according to claim 1, wherein the mechanical speed reducer with gearing-down cog-wheels is situated above the bull-wheel and opposite from the electric motor with respect to the vertical direction.

5 6. The chair lift according to claim 1, wherein the geared motor mechanism comprises a motor equipped with an electronic speed control for direct drive of the bull-wheel.

10 7. The chair lift according to claim 1, wherein the bull-wheel is equipped with a toothed wheel designed to cooperate with an emergency motor securedly attached to the carriage.

15 8. The chair lift according to claim 1, wherein the support device comprises a base supporting fixed horizontal sections along which the carriage moves by means of roller means.

20 9. The chair lift according to claim 8, wherein the support carriage of the bull-wheel is associated with a tensioning device acting in the direction of the line to mechanically tension the rope.

10. The chair lift according to claim 7, wherein the emergency motor is formed by an electric geared motor driven by an electricity generating set.